

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 9-14-78

Operator El Paso Natural Gas Company		Lease San Juan 30-6 Unit #8-A	
Location NW/4 Sec. 31-30-87		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 3857'	Tubing: Diameter 2.375	Set At: Feet 3694'
Pay Zone: From 3829	To 3849	Total Depth: 3857'	Shut In 7-29-78
Stimulation Method Natural		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches		Choke Constant: C			
Shut-In Pressure, Casing, PSIG	+ 12 = PSIA	Days Shut-In 1	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA	
			615	627	
Flowing Pressure: P PSIG	+ 12 = PSIA		Working Pressure: P _w PSIG	+ 12 = PSIA	
530	542		591	603	
Temperature: T = 80 °F	n = .75		Fpv (From Tables)	Gravity	
F_t = .9813			1.046	.640	F_g = .9682

$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = \text{Calculated from meter readings} = \underline{\hspace{2cm}} \underline{2407} \underline{\hspace{2cm}} \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

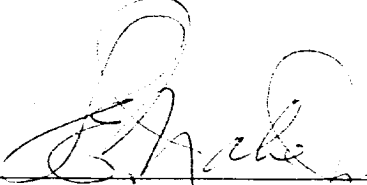
$$Aof = Q \left(\frac{393129}{29520} \right)^n = (13.3174)^{.75} = (2407) = (6.97) (2407)$$

$$Aof = \underline{\hspace{2cm}} \underline{16,776} \underline{\hspace{2cm}} \text{ MCF/D}$$

Note: Flow pressures and meter readings observed after 45 day flow period into pipeline.

TESTED BY _____

WITNESSED BY _____


Well Test Engineer

